

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/380,484A

DATE: 03/28/2001  
TIME: 18:15:34

Input Set : A:\14028.027.SEQ  
Output Set: N:\CRF3\03282001\I380484A.raw

RECEIVED  
APR 06 2001  
TECH CENTER 1600/2900  
ENTERED

4 <110> APPLICANT: Neville, David M.  
5 Knechtle, Stuart  
6 Thomas, Judith M.  
7 Thompson, Jerry T.  
8 Hu, Huaizhong  
9 Ma, Shenglin  
11 <120> TITLE OF INVENTION: IMMUNOTOXINS AND METHODS OF INDUCING  
12 IMMUNE TOLERANCE  
14 <130> FILE REFERENCE: 14028.0287  
16 <140> CURRENT APPLICATION NUMBER: US 09/380,484A  
17 <141> CURRENT FILING DATE: 1999-12-06  
19 <150> PRIOR APPLICATION NUMBER: PCT/US98/04303  
20 <151> PRIOR FILING DATE: 1998-03-05  
22 <150> PRIOR APPLICATION NUMBER: 60/039,987  
23 <151> PRIOR FILING DATE: 1997-03-05  
25 <160> NUMBER OF SEQ ID NOS: 16  
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 3476  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Artificial Sequence  
34 <220> FEATURE:  
35 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =  
36 synthetic construct  
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39 synthetic  
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42 aaaaaaaagc cgcgcaagc gggctttatt accaagcgaa ggcgcatcgc ccattcaggc 60  
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44 aaggggggatg tgctgcaagg cgattaagtt gggtaacgcc aggggtttcc cagtcacgac 180  
45 gttgtaaaaac gacggccagt ccgtaatacg actcacttaa ggccttgact agagggaaga 240  
46 tctggatgca ttcgcgcgca cgtacggtct cgaggaaattc ctgcaggata tcgtggatcc 300  
47 aagcttcacc atgggagacg tcaccgggtc tagaacctag ggagctctgg taccactag 360  
48 tgagtcgtat tacgtaaccg caggtaaaag gcatattttt cgcgtgtcat ggctagtaaa 420  
49 taacaccggt gtcatttaga gtcagggaaa gacaatgaaa aacgaagaaa gccaccgggc 480  
50 ggcaaccgga tgactttcgc ttatcaccca gcacacacct gggagaaatc acggtcatga 540  
51 gtttacagac tcatgcgacg aatgcgacac ctaaaacacc taccgcgcgc gagcgcgacc 600  
52 gtggtggact ggacaacacc ccagcatctg ccagtgaccg cgacctttta cgcgatcatc 660  
53 taggccgcga tgtactccac ggttcagtca cacgagactt taaaaaggcc tatcgacgca 720  
54 acgctgacgg cagcaactcg ccgcgtatgt atcgcttoga gactgatgct ttaggacggt 780  
55 gcgagtacgc catgctcacc accaagcagt acgcccgcgt cctggtcgta gacgttgacc 840  
56 aagtaggtac cgcaggcggt gacccgcgag acttaaaccg gtacgtccgc gacgtggtgc 900  
57 gctcactgat tactcatagc gtcgggcccag cctgggtggg tattaaccca actaacggca 960  
58 aagcccagtt catatggctt attgacctg tctacgctga ccgtaacggt aaatctgcgc 1020  
59 agatgaagct tcttgacgca accacgcgtg tgctgggtga gcttttagac catgaccgcg 1080  
60 acttttccca ccgcttttag cgcaaccggt tctacacagg caaagcccct accgcttacc 1140  
61 gttggtatag gcagcacaac cgggtgatgc gccttgagga cttgataaag caggtaaggg 1200

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62 atatggcagg acacgaccag ttcaacccca cccacgcca gcaattcagc tctggccgcg 1260
63 aacttatcaa cgcggtcaag acccgccgtg aagaagccca agcattcaaa gcactcgccc 1320
64 aggacgtaga cgcggaaatc gccggtggtc tcgaccagta tgacccgga cttatcgacg 1380
65 gtgtgctgtt gctctggatt gtccaaggaa ccgagcacg cgacgaaaca gcctttagac 1440
66 atgcgcttaa gactggccac cgcttgccgc agcaaggcca acgctgaca gacgcagcaa 1500
67 tcatcgacgc ctatgagcac gcctacaacg tcgcacacac ccacggcggg gcaggccgcg 1560
68 acaacgagat gccacccatg cgcgaccgcc aaaccatggc aaggcgctg cgcgggtatg 1620
69 tcgccccaatc caagagcgag acctacagcg gctctaacgc accaggtaaa gccaccagca 1680
70 gcgagcggaa agccttggcc acgatgggac gcagaggcgg acaaaaagcc gcacaacgct 1740
71 ggaaaaacaga ccccgagggc aaatatgcgc aagcacaaa gtcgaagctt gaaaagacgc 1800
72 accgtaagaa aaagggtcaa ggacgatcta cgaagtcccg tattagccaa atggtgaacg 1860
73 atcagtatatt ccagacaggg acagttccca cgtgggctga aataggggca gaggtaggag 1920
74 tctctcgcg cagcgttgct aggcattgct cggagctaaa gaagagcggg gactatccgg 1980
75 acgttttaagg ggtctcatat cgtaagcaat atacggttcc cctgcccgtta ggcagttaga 2040
76 taaaacctca cttgaagaaa accttgaggg gcagggcagc ttatatgctt caaagcatga 2100
77 ctctctctgt tctcctagac ctgcgaaccc tcgccataa cctcaccgaa ttgtgggcca 2160
78 tcgcccgtgat agacggtttt tcgccctttg acgttggagt ccacgttctt taatagtga 2220
79 ctcttgttcc aaactggaac aacactcaac cctatctcgg gctattcttt tgatttataa 2280
80 gggattttgc cgatttcggc ctatttggtt aaaaatgagc tgatttaaca aaaatttaac 2340
81 gcgaatttta acaaaatatt aacgtttaca atttaaatat ttgcttatac aatcttctg 2400
82 tttttggggc ttttctgatt atcaaccggg gtaaatcaat ctaaagtata tatgagtaaa 2460
83 cttggtctga cagttacca a tgcttaatca gtgaggcacc tatctcagcg atctgtctat 2520
84 ttcgttcac ctagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct 2580
85 taccatctgg cccagtgct gcaatgata ccgagaccc acgctcacc gctccagatt 2640
86 tatcagcaat aaaccagcca gccggaagg cgcagcgag aagtgtctc gcaactttat 2700
87 ccgcctccat ccagtctatt aattgttgcc ggggaagctag agtaagtagt tcgccagtta 2760
88 atagtttgcg caacgttggt gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg 2820
89 gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tcccccatgt 2880
90 tgtgcaaaaa agcgggttagc tccttcggtc ctccgatcgt tgtcagaagt aagttggccg 2940
91 cagtgttatc actcatggtt atggcagcac tgcataatc tcttactgtc atgccatccg 3000
92 taacatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc 3060
93 ggcgaccgag ttgtctctgc ccggcgtaaa caccgggataa taccgcgcca catagcagaa 3120
94 ctttaaaagt gctcatcatt ggagaacgtt cttcggggcg aaaactctca aggatcttac 3180
95 cgctgttgag atccagttcg atgtaacca ctcgtgcacc caactgatct tcagcatctt 3240
96 ttactttcac cagcgtttct gggtagagcaa aaacagggaag gcaaaatgcc gcaaaaaagg 3300
97 gaataagggc gacacggaaa tgttgaaata tcatactctt cctttttcaa tattattgaa 3360
98 gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata 3420
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101 &lt;210&gt; SEQ ID NO: 2

102 &lt;211&gt; LENGTH: 21

103 &lt;212&gt; TYPE: DNA

104 &lt;213&gt; ORGANISM: Artificial Sequence

106 &lt;220&gt; FEATURE:

107 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:/note =

108 synthetic construct

110 &lt;400&gt; SEQUENCE: 2

111 gacatccaga tgaccagac c

21

113 &lt;210&gt; SEQ ID NO: 3

114 &lt;211&gt; LENGTH: 58

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115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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122 <400> SEQUENCE: 3
123 cctcccgagc caccgcctcc gctgcctccg cctcctttta tctccagctt gtgtcgcc      58
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126 <211> LENGTH: 56
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
132     synthetic construct
134 <400> SEQUENCE: 4
135 gcagcggagg cggtagctcg ggagggggag gctcggaggt gcagcttcag cagtct      56
137 <210> SEQ ID NO: 5
138 <211> LENGTH: 32
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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158 <400> SEQUENCE: 6
159 gtctcttcaa agcttattgc ctgagctgcc tcccaa      37
161 <210> SEQ ID NO: 7
162 <211> LENGTH: 32
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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170 <400> SEQUENCE: 7
171 gcatctagat cagtagcagg tgccagctgt gt      32
173 <210> SEQ ID NO: 8
174 <211> LENGTH: 59
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =

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180      synthetic construct
182 <400> SEQUENCE: 8
183 cggtcgacac catggagaca gacacactcc tggtatgggt actgctgctc tgggttcca      59
185 <210> SEQ ID NO: 9
186 <211> LENGTH: 51
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
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191 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
192     synthetic construct
194 <400> SEQUENCE: 9
195 gtactgctgc tctgggttcc aggttcact ggggacatcc agatgaccca g      51
197 <210> SEQ ID NO: 10
198 <211> LENGTH: 67
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
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203 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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207 atgaaatacc tattgcctac ggcagccgct ggattgttat tactgcgctg cccaaccagc      60
208 gatggcc      67
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 54
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
217     synthetic construct
219 <400> SEQUENCE: 11
220 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgctgc ccaa      54
222 <210> SEQ ID NO: 12
223 <211> LENGTH: 59
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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231 <400> SEQUENCE: 12
232 ggattgttat tactcgctgc ccaacaagcg atggccggcg ctgatgatgt tgttgattc      59
234 <210> SEQ ID NO: 13
235 <211> LENGTH: 31
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
241     synthetic construct
243 <400> SEQUENCE: 13
244 cgggtactata aaactctttc caatcatcgt c      31

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Input Set : A:\14028.027.SEQ  
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246 <210> SEQ ID NO: 14
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249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
253     synthetic construct
255 <400> SEQUENCE: 14
256 gacgatgatt ggaaagagtt ttatagtacc g                               31
258 <210> SEQ ID NO: 15
259 <211> LENGTH: 40
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
265     synthetic construct
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (0)...(0) /
269 <223> OTHER INFORMATION: N = c or a
271 <400> SEQUENCE: 15
W--> 272 agatctgtcg ntcacagct ttgatttca aaaaatagcg                     40
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 15
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
281     synthetic construct
283 <400> SEQUENCE: 16
284 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
285 1           5           10          15

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/380,484A

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L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15